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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,189	09/09/2003		Joseph E. Legare	Legare-PAUS0003	1625
58937	7590	07/27/2006		EXAMINER	
		FICE, PLLC	TRAN, DIEM T		
209 PROVIDENCE RD. CHAPEL HILL, NC 27514				ART UNIT	PAPER NUMBER
				3748	
			DATE MAILED: 07/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Summers	10/657,189	LEGARE, JOSEPH E.				
Office Action Summary	Examiner	Art Unit				
The MAIL INC DATE of this communication com	Diem Tran	3748				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>01 M</u>	<u>ay 2006</u> .					
,_	,—					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-51 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
 7) ☐ Claim(s) is/are objected to. 8) ☒ Claim(s) <u>1-51</u> are subject to restriction and/or example. 	election requirement.					
o/23 Gramm(o) <u>- o-</u> and dabject to recinement and a						
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) acce						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
,	ammon roto and attached amou					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau		od III uliio (valional otogo				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail D 5) Notice of Informal F	ate Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	······································				
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DETAILED ACTION

This office action is in response to the Applicant's election/restriction and amendment filed on 5/1/2006. In this amendment, claims 9, 15, 19, 24, 25, 28, 29, 33, 43, 49, 50 and 51 have been amended. Overall, claims 1-51 are pending in this application.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I. Claims 1-49, drawn to a method of diagnosing a working condition of a catalyst, classified in class 60, subclass 277.

Group II. Claim 50, drawn to a method for compensating for engine powers changes caused by controlled changes in the quantity of residual exhaust gases entering an engine's cylinder, classified in class 60, subclass 278.

Group III. Claim 51, drawn to changing engine operating parameter to cause the rise in catalyst temperature, classified in class 60, subclass 284.

The inventions are distinct, each from the other because of the following reasons: Inventions of Group I, Group II, and Group III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the different inventions of Group I, Group II, and Group III have different functions and different effects.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

For Group I, this application is further restricted because it contains claims directed to the following patentably distinct species of the claimed invention: the species 1 including claims 1-23, 43-49 drawn to diagnosing a catalyst working condition based on the temperature difference measurement, and the species 2 including claims 24-42 drawn to diagnosing a catalyst working condition based on oxygen sensor measurements. For species 1, this application is further restricted because it contains claims directed to the following patentably distinct sub- species of the claimed invention: the sub-species 1 including claim 10, drawn to providing a reductant by operating selected individual cylinders of an engine, is classified in class 123, subclass 481, the sub-species 2 including claims 11-12, 19, 20, drawn to providing a reductant by cycling the air fuel ratio of exhaust gas entering the catalyst, is classified in class 60, subclass 285, the sub-species 3

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including claims 3, 4, 6, drawn to providing a reductant by controlling a quantity of residual exhaust gas entering an engine's cylinder, is classified in class 60, subclass 278.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim appears to be generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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Conclusion

Any inquiry concerning this communication from the examiner should be directed to Examiner Diem Tran whose telephone number is (571) 272-4866. The examiner can normally be reached on Monday -Friday from 8:00 a.m.- 6:00p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (571) 272-4859. The fax number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 800-786-9199 (toll-free).

Diem Tran Patent Examiner

Rendran

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DT July 24, 2006

> Tu M. Nguyen PRIMARY EXAMINER

> > Ant Unit 3748